

Datasheet for ABIN7554114
HEY1 Protein (AA 1-304) (His tag)



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Overview

Quantity:	1 mg
Target:	HEY1
Protein Characteristics:	AA 1-304
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HEY1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat HEY1 Protein expressed in mammalian cells.
Sequence:	<p>MKRAHPEYSS SDSELDETIE VEKESADENG NLSSALGSMS PTTSSQILAR KRRRGIIIEKR RRDRINNSLS ELRRLVPSAF EKQGSACLEK AEILQMTVDH LKMLHTAGGK GYFDAHALAM DYRSLGFREC LAEVARYLSI IEGLDASDPL RVRLVSHLNN YASQREAASG AHAGLGHIPW GTVFGHHPHI AHPLLLPQNG HGNAGTTASP TEPHHQGR LG SAHPEAPALR APPSGSLGPV LPVWTSASKL SPPLLSSVAS LSAFPFSFGS FHLLSPNALS PSAPTQAANL GKPYRPWGTE IGAF</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> Made to order protein - from design to production - by highly experienced protein experts.
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Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	HEY1
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Alternative Name:	HEY1 (HEY1 Products)
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Background:	<p>Hairy/enhancer-of-split related with YRPW motif protein 1 (Cardiovascular helix-loop-helix factor 2) (CHF-2) (Class B basic helix-loop-helix protein 31) (bHLHb31) (HES-related repressor protein 1) (Hairy and enhancer of split-related protein 1) (HESR-1) (Hairy-related transcription factor 1) (HRT-1) (hHRT1),FUNCTION: Transcriptional repressor which binds preferentially to the canonical E box sequence 5'-CACGTG-3' (PubMed:11095750). Downstream effector of Notch signaling required for cardiovascular development. Specifically required for the Notch-induced endocardial epithelial to mesenchymal transition, which is itself critical for cardiac valve and septum development. May be required in conjunction with HEY2 to specify arterial cell fate or identity. Promotes maintenance of neuronal precursor cells and glial versus neuronal fate specification. Represses transcription by the cardiac transcriptional activators GATA4 and GATA6 and by the neuronal bHLH factors ASCL1/MASH1 and NEUROD4/MATH3 (PubMed:15485867). Involved in the regulation of liver cancer cells self-renewal (PubMed:25985737). {ECO:0000250 UniProtKB:Q9WV93, ECO:0000269 PubMed:11095750, ECO:0000269 PubMed:15485867, ECO:0000269 PubMed:25985737}.</p>
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Molecular Weight:	32.6 kDa
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Target Details

UniProt: [Q9Y5J3](#)

Pathways: [Tube Formation](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months